

Deploying the Barracuda Load Balancer ADC in a High Availability (HA) Setup using the CloudFormation Template on Amazon Web Services

https://campus.barracuda.com/doc/51188822/

The Barracuda Load Balancer ADC can be deployed in a HA setup on Amazon Web Services using the CloudFormation Template. The Barracuda Load Balancer ADC integrates with various AWS services to provide HA capability.

Deployment using the CloudFormation template enables you to bootstrap the configuration of the Barracuda Load Balancer ADC. The initial deployment will allow you to specify the service configuration during launch. After the deployment, the instances come up as a clustered Active/Passive HA pair. The configuration between the clustered instances is automatically synchronized once in every two (2) minutes.

The latest Barracuda CloudFormation Template (CFT) is available < <u>HERE</u> >. This CFT will deploy the Barracuda Load Balancer ADC with the basic service configuration and set up the necessary AWS IAM Roles for a successful bootstrapping

This CFT deploys the Barracuda Load Balancer ADC into a pre-existing VPC deployment to load balance the servers.

The Barracuda CloudFormation Template (CFT):

- Provides an option to select the deployment mode (Stand-alone or High Availability (HA)) for the Barracuda Load Balancer ADC.
- Creates an IAM role that can be used to make AWS API calls for service failover in case of outage.
- Security group creation and assignment to the deployed Barracuda Load Balancer ADC instances.

AWS Services required for the HA Setup

The following are the AWS services required for the HA setup:

- Virtual Private Cloud (VPC)
- Elastic Compute Cloud (EC2)
- <u>CloudFormation</u>
- Identity and Access Management (IAM)

Pre-requisites

• Latest Barracuda Load Balancer ADC CFT Template.



- VPC ID, and subnet ID where you want to deploy the Barracuda Load Balancer ADC and load balance your servers.
- Ability to create an IAM Role. The CFT will create an IAM role that has permissions to attach and detach secondary private IP's.

Default Values of the Barracuda Load Balancer ADC CloudFormation Template

The following are the default values of the Barracuda CloudFormation Template (CFT). You can modify the values as needed.

- Instance Type Instance type to be used in Amazon Web Services (AWS). Default: m3.medium
- Security Group with the following ports opened:

Port	Protocol	Description
8000	ТСР	Provides Management access to the Barracuda Load Balancer ADC web interface.
80	ТСР	Provides HTTP access to the Barracuda Load Balancer ADC web interface
443	ТСР	Provides HTTPS access to the Barracuda Load Balancer ADC web interface.
8002	ТСР	Required for clustering the instances.
ALL	VRRP(112)	Used for heart beat between the instances.
ALL	ICMP	To enable ping between the instances. This is also helpful in troubleshooting.
ALL	ALL	Required for Layer 4 services to serve traffic.

How Barracuda CloudFormation Template (CFT) Works

What CloudFormation Template (CFT) does:

- 1. A CloudFormation Template (CFT) is uploaded and a stack is created on Amazon Web Services. With this:
 - 1. An Amazon S3 bucket gets created with the specified stack name and unique ID.
 - 2. An appropriate IAM role to access the S3 bucket is added.
- 2. The Barracuda Load Balancer ADC VM(s) will be deployed.
- 3. After the Barracuda Load Balancer ADC instance is up and ready to serve the traffic:
 - 1. ADC Instance is configured based on the service configuration data provided during CFT upload.
- 4. The Barracuda Load Balancer ADC Primary is now ready to serve the traffic to the configured services.
- 5. If the secondary instance detects that primary is unreachable it does the following:
 - 1. Make AWS API calls to transfer the secondary private IP addresses from the Primary instance to itself.
 - 2. It assumes active role and starts serving the traffic till the primary instance is reachable again.



Importing the Barracuda Load Balancer ADC Template and Deploying the Instance

Perform the steps below to import the Barracuda Load Balancer ADC CloudFormation Template and deploy the instance:

- 1. Log into the Amazon Management Console.
- 2. Select CloudFormation under Management Tools.

Management Tools



- 3. In the CloudFormation Management Console, click Create Stack.
- 4. In the Create A New Stack page, perform the following steps:
 - 1. On the **Select Template** page:
 - 1. Select Upload a template to Amazon S3 under Choose a template.
 - 2. Click Browse to select the Barracuda Load Balancer ADC's latest CFT
 - 3. Click Next. The Specify Details page appears.

Select Template	Select Template	
Specify Details Options Review	Select the template that descr	bes the stack that you want to create. A stack is a group of related resources that you manage as a single unit
	Design a template	Use AWS CloudFormation Designer to create or modify an existing template. Learn more. Design template
	Choose a template	A template is a JSOH-formatted text file that describes your stack's resources and their properties. Learn more. Select a sample template Upload a template to Amazon S3 BrowseADC_CFT_HA bt Sepecty an Amazon S3 template URL

- 2. On the **Specify Details** page, do the following configuration:
 - 1. In the **Specify Details** section:
 - 1. Enter a name for the CloudFormation stack in the **Stack Name** field.
 - 2. In the **Parameters** section, specify values for the following:

	Network Configuration
Parameter Name	Description
Which VPC should this be deployed to?	Select the VPC that you wish to deploy the Barracuda Load Balancer ADC instance(s) from the drop-down list.



Select the subnet of the VPC where you want to create the instance	Select the subnet ID associated with the availability zone(s) where the Barracuda Load Balancer ADC instance needs to be deployed. Note that the subnet must be part of the VPC that you choose.
Additional Port	Specify any additional port to be opened in the security group for the ge-1-1 interface. "-1" is the default value, which means no additional port will be opened. If you want to open additional ports like 443, 80, etc., specify the required ports here.
	Amazon EC2 Configuration
Parameter Name	Description
Instance Type	Select an instance type depending on your requirement.
Configure instances in High Availability Mode?	 Select Yes if you want to deploy the instance in a high availability setup. Select No if you want to deploy the instance as a stand-alone unit.
Assign Elastic IP?	Select <i>Yes</i> to assign an elastic IP address to the instance.
Barracı	Ida ADC BootStrap Configuration
Parameter Name	Description
Service Name	Enter a name for the service that needs to be created on the Barracuda Load Balancer ADC instance.
Service Type	Select the service type for the service.
Service Port	Enter the port number on which the service is listening to.
HTTP Redirect Port	(Optional) Enter the HTTP redirect port for an Instant SSL service.
Secure Site Domain	(Optional) Enter the secure side domain for an Instant SSL service. To include all domains, enter an asterisk (*).
Service Netmask	Enter the netmask for the service.
Servers	Enter the IP address of the server, or Fully Qualified Domain Name (FQDN) of the server.

Barracuda Load Balancer ADC



Create stack			
Select Template	Specify Details		
Options Review	Specify a stack name and para	meter values. You can use or change the default	t parameter values, which are defined in the AWS CloudFormation template. Learn more.
	Stack name	adc-ha-stack	
	Parameters		
	Network Configuration		
	Which VPC should this be deployed to?	vpc-ccd96aa8 (10.0.0/16) (sdappin-a Select the VPC chosen for this deployment	
	Select the subnet of the VPC where you want to create the instance	subnet-1ddb6479 (10.0.0.0/24) (sdappl Select subnet Id which has been already assigned to	he VPC used
	Additional Port	-1 (OPTIONAL) Specify any additional port to be opened I in a security group for data plane interface. The following details regarding these ports please refer to Barracud	n security group for dataplane interface. Defaultivalue -1 means no additional port will be opened. This CFT by default will open "Service Port ports will be opened in security group for managament interface(emb) 8000, 413, 8002, 22, icomptor pring Its12, VRRP(112) protocol. For ADC AVX disployment totable.
	Amazon EC2 Configurat	ion	
	Instance Type	m3.medium	Choose the instance type to use for this deployment
	Configure instances in High Availability Mode ?	Yes	Configure instances in ActivePassive HA pair
	Assign Elastic IP ?	Yes	Associate Elastic Ip for accessing management interfaces and service that will be configured
	Barracuda ADC BootStr	ap configuration	
	Service Name	service1	Specify the Service Name to be configured on the Barracuda ADC
	Service Type	HTTPS	Specify the Service Type to be configured on the Barracuda ADC
	Service Port	443	Specify the Service Port to be configured on the Barracuda ADC. This port is exposed to the outside world. Default is 80.
	HTTP Redirect Port	80	(OPTIONAL) Specify the HTTP redirect port for an Instant SSL service. Default is 80
	Secure Site Domain	•	(OPTIONAL) Specify the secure side domain for an Instant SSL service. To include all domains, enter an asterisk (*).
	Service Netmask	255.255.255.0	The netmask for the service.
	Servers	www.google.com:80,www.yahoo.com:80 Specify the Server IP.Server Port combination in comm also enter the FQDN of the instance or a downstream	a separated format e.g. 10.10.11.50, 10.10.2.1.80. This will be configured as backend servers on the Barracuda ADC. Alternatively, you can ELB to connect to.
			Cancel Previous Next

- 3. Click **Next** to continue.
- 4. On the **Options** page, enter a key-value pair to identify the instance(s) of this stack. Click **Next**.

Create stack			
Select Template Specify Details	Options		
Options Review	Tags You can specify tags (key-value pairs) for resources in your stack	. You can add up to 10 unique key-value pairs for each stack. Learn mor	e.
	Key (127 characters maximum)	Value (255 characters maximum)	
	1 Name	Demo	•
	Advanced You can set additional options for your stack, like notification opti	ons and a stack policy. Learn more.	

5. On the **Review** page, verify the values you entered, select the IAM capability check box, and click **Create**.

Barracuda Load Balancer ADC



Specify Details	Review
Options	Template
Review	Template URL https://s3-us-wesh-2 amazonaws.com/cf-lemplates-1aht/pi7/a/a/20-us-wesh-2/2016153XBfADC_CFT_HA.bt Description Barracuda Load Balancer ADC - Sample CFT showing how to launch two instances in Active/Passive HA par Estimate cost Link is not available
	Details
	Stack name add-ha-stack
	Network Configuration
	Vpcid vpc-ccd96aa8 SubnetiD subnet-iddb6479
	Amazon EC2 Configuration
	InstanceType m3 medium ConfigureNA Yes AssignElasticip Yes
	Barracuda ADC BoolStrap Configuration
	ADCServiceName service1 ADCServiceProt HTTPS ADCServiceProt 43 ADCHTRRedirectProt 0 ADCInstantSLOmain * ADCEnviceNetmask 255.255.0 ADCEserviceNetmask 255.255.0 Create Idurescores Nor google com80.www.yahoo.com.80
	Options
	Tags
	Name Demo
	Advanced
	Notification Timeout none Rollback on failure Yes
	Capabilities
	The following resource(s) require capabilities: [AWS::IAM::InstanceProfile, AWS::IAM::Role] This template might include identity and Access Management (AM) resources, which can include groups, IAM users, and IAM roles with certain permissions. Ensure that the template you are using is from a trusted source. Learn more.

5. The CFT now starts its operation. You can see the CREATE_IN_PROGRESS status displayed on the CloudFormation Management Console for the stack. Select the tabs and see the status of events and resources that are being created. An example of the successfully created resources is available in the screenshot below:

Fitter: Active Tey Name: Showing 1 star Stack Name Created Time Status Description Image: Stack Name Created Time Status Description Image: Stack Name 2016-06-01 15:04:33 UTC+0550 CREATE_RUPROCRESS Barnacuda Load Balancer ADC - Sample CFT showing how to launch two instances in Active/Passive HA par Overview Outputs Resources Events Template Parameters Tags Stack Policy Change Sets 2016-06-01 Status Type Logical ID Status reason Image: Status Physics Cell Image: Status Physics Physics Cell <	Create Stack	Actions	s • C	esign template	e						C O
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6. After the stack is created, the Barracuda Load Balancer ADC instances will be deployed. To access the instance(s), select the **Output** tab and click on the **Management URLs**.

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7. You will be redirected to the **Licensing** page with the following options.

Barracuda	
Licensing How would you like to license your Barracuda Virtual Appliance?	
I Already Have a License Token	
I Would Like to Purchase a License	
I Would Like to Request a Free Evaluation	

 I Already Have a License Token – Use this option to provision your Barracuda Load Balancer ADC with the license token you have already obtained from Barracuda Networks. Enter your Barracuda Networks Token and Default Domain to complete licensing, and then click Provision.

The Barracuda Load Balancer ADC connects to the Barracuda Update Server to get the required information based on your license, and then reboots automatically. Allow a few minutes for the reboot process. Once the instance is provisioned, you are redirected to the login page.

2. I Would Like to Purchase a License - Use this option to purchase the license token for



the Barracuda Load Balancer ADC. Provide the required information in the form, accept the terms and conditions, and click **Purchase**.

The Barracuda Load Balancer ADC connects to the Barracuda Update Server to get the required information based on your license, and then reboots automatically. Allow a few minutes for the reboot process. Once the instance is provisioned, you are redirected to the login page.

3. I Would Like to Request a Free Evaluation – Use this option to get 30 days free evaluation of the Barracuda Load Balancer ADC. Provide the required information in the form, accept the terms and conditions, and click Evaluate.

The Barracuda Load Balancer ADC connects to the Barracuda Update Server to get the required information based on your license, and then reboots automatically. Allow a few minutes for the reboot process. Once the instance is provisioned, you are redirected to the login page.

- 8. Log into the Barracuda Load Balancer ADC instance with:
 - 1. Username: admin
 - 2. Password: Instance ID of your Barracuda Load Balancer ADC in Amazon Web Services.
- 9. Navigate to the **BASIC** > **Administration** page and enter your old password, new password, and re-enter the new password. Click **Save Password**.

If you have configured an HTTPS/Instant SSL service, ensure that the correct domain name and the trusted certificate is associated with the service.



Figures

- 1. CloudFormation1.png
- 2. Upload-the-Template.png
- 3. Details.png
- 4. Options.png
- 5. Review-the-Stack.png
- 6. StackCreation1.png
- 7. StackCreationComplete.png
- 8. Stack_Output.png
- 9. Licensing.png

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